

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS UNIVERSITI TEKNOLOGI MARA, MERBOK, KEDAH

DIPLOMA IN INFORMATIC LIBRARY (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

INDIVIDUAL ASSIGNMENT:

PREPARED BY:

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CLASS:

KCDIM1443B

PREPARED FOR:

SIR MOHD FIRDAUS MOHD HELMI

SUBMISSION DATE:

18 DECEMBER 2024

INDIVIDUAL ASSIGNMENT:

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CLASS:

KCDIM1443B

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS
DIPLOMA IN INFORMATICS LIBRARY
UNIVERSITI TEKNOLOGI MARA,
MERBOK, KEDAH

ACKNOWLEDGEMENT

Alhamdulillah...

First of all, I would like to thank Allah because I could complete the assignment given to me. This assignment has been done with all my effort and hard work to produce a good assignment with full commitment and responsibility.

Also, a big thank you to my Programming for Libraries (IML208) lecturer, Sir Mohd Firdaus Mohd Helmi because without his guidance, I couldn't have completed my assignment. He always gives me a guide on how to do this assignment. I want to say thanks to my friends who always helped me with this assignment and supported me to not give up.

Lastly, I want to say thanks and congratulations to myself because I can complete this assignment before the end of the submission date in good condition.



STUDENT PLEDGE OF ACADEMIC INTEGRITY

As a student of Universiti Teknologi MARA (UiTM), it is my responsibility to act in accordance with UiTM's academic assessment and evaluation policy. I hereby pledge to act and uphold academic integrity and pursue scholarly activities in UiTM with honesty and responsible manner. I will not engage or tolerate acts of academic dishonesty, academic misconduct, or academic fraud including but not limited to:

- a. Cheating: Using or attempt to use any unauthorized device, assistance, sources, practice or materials while completing academic assessments. This include but not limited to copying from another, allowing others to copy, unauthorized collaboration on an assignment or open book tests, or engaging in any act or conduct that can be construed as cheating.
- b. Plagiarism: Using or attempts to use the work of others (ideas, design, words, art, music, etc.) without acknowledging the source; using or purchasing materials prepared by another person or agency or engaging in other behavior that a reasonable person would consider as plagiarism.
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- Furnishing false information: Providing false information or false representation to any UiTM official, instructor, or office.

With this pledge, I am fully aware that I am obliged to conduct myself with utmost honesty and integrity. I fully understand that a disciplinary action can be taken against me if I, in any manner, violate this pledge.

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Course Code: IML208 Programme code: CDIM144

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*Students are required to sign one pledge for each course taken.

Bahagian Pentaksiran dan Penilaian Akademik 2021

Project Name: Medical Appointment Booking System

File Name: medical appointment.py

Prompt Data:

I. Patient Name: AliciaII. ID Number: 98261

III. Age: 25

IV. Gender: Female

V. Date Appointment: 2023-11-6VI. Time Appointment: 10:00 AM

VII. **Contact:** 182-547-726

Function:

1. Create Data

Figure 1: Create patient appointment data

```
33  }
34  appointments.append(appointment)
35  print(f"appointment successfully booked for {"Alicia"} on {"2023-11-6"} at {"10:00 AM"}. ")
```

Figure 2: Create patient appointment data

2. Read Data

```
Netcome

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```

Figure 3: Read appointment data

3. Update Data

Figure 4: Update patient appointment data

```
# Function to update an appointment

def update_appointment():

display_appointments()

try:

# Choose an appointment to update

choice = int(input("\nEnter the number of the appointment you want to update: ")) - 1

if choice < 0 or choice >= len(appointments):

print("Invalid choice. Please try again.")

return

# Select which field to update

field = input("Enter the field you want to update (name, id_number, age, gender, date, time, contact): ").strip().lower()

if field not in appointments[choice]:

print("Invalid field. Please try again.")

return

# Update the chosen field

new_value = input(f"Enter the new value for {field}: ").strip()

appointments[choice][field] = new_value

print("\nAppointment updated successfully!")

except ValueError:

print("Invalid input. Please try again.")

if __name__ == "__main__":

print("Welcome to the Medical Appointment System!")

update_appointment()

print("Nulpdated Appointments.")

display_appointments()
```

Figure 5: Update patient appointment data

4. Delete Existing Data

Figure 6: Delete existing patient data

```
## Sunction to delete an appointment

def delete_appointment():

display_appointments()

if not appointments:

return

try:

## Choose an appointment to delete

choice = int(input("\nEnter the number of the appointment you want to delete: ")) - 1

if choice < 0 or choice >= len(appointments):

print("Invalid choice. Please try again.")

return

## Confirm deletion

confirmation = input(f"Are you sure you want to delete the appointment for {appointments[choice]['name']}? (yes/no): ").stription of the deleted_appointment = appointments.pop(choice)

print("\nAppointment for {deleted_appointment['name']} has been deleted.")

else:

print("Invalid input. Please try again.")

## Confirmation == "__main__":

print("Invalid input. Please try again.")

## Confirmation == "__main__":

print("Nelcome to the Medical Appointment System!")

## delete appointment()

## print("Nulpdated Appointments:")

## display_appointments()
```

Figure 7: Delete existing patient data

Conditional Statement: Yes

If, elif, & else:

```
⋈ Welcome
                 🏓 ifelifelse.py 🗙 🟓 delete data.py 💿 🟓 updatedata.py
                                                                            functiont
C: > Users > Admin > 💠 ifelifelse.py > ...
       appointments = [
                "age" : [25],
"gender" : ["female"],
                "date" : ["2023-11-6"],
                "contact" : ["182-547-726"],
 10
       appointment_date = input("enter appointment date:")
       if appointment_date == "2023-11-6":
           print("this date already full.
       elif appointment_date == "2023-11-10":
           print("this date is available.")
           print("invalid date or date is not available.")
       appointment_time = input("enter appointment time:")
       if appointment_time == "10:00 AM":
           print("this time slot already booked.")
       elif appointment_time == "3:00 PM":
    print("this time slot is availabe.")
           print("invalid time or time is not available.")
```

Figure 8: Check appointment availability

GUI: No

Result:

1. Create Data:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Debug Console Terminal Ports

PS C:\Users\Admin\ & C:\Users\Admin\ AppData/Local/Programs/Python/Python313/python.exe c:\Users\Admin/medicalappointment.py appointment successfully booked for Alicia on 2023-11-6 at 10:00 AM.

PS C:\Users\Admin>
```

Figure 9: Results create a patient appointment data

2. Read Data:

Figure 10: Result of read patient appointment data

3. Update Data:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

N/Python313/python.exe c:/Users/Admin/contoh.py
Welcome to the Medical Appointment System!

Current Appointments:

1. Name: ['Alicia'], ID: ['98261'], Age: [25], Gender: ['female'], Date: ['2023-11-6'], Time: ['10:00 AM'], Contact: ['182-547-726']

Enter the number of the appointment you want to update: 1
Enter the field you want to update (name, id_number, age, gender, date, time, contact): date
Enter the new value for date: 2023-11-10

Appointment updated successfully!

Updated Appointments:

Current Appointments:

1. Name: ['Alicia'], ID: ['98261'], Age: [25], Gender: ['female'], Date: 2023-11-10, Time: ['10:00 AM'], Contact: ['182-547-726']

PS C:\Users\Admin> []
```

Figure 11: Result update patent appointment data

4. Delete Existing Data:

Figure 12: Delete patient appointment data

5. If, Elif, and Else:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Admin> & C:/Users/Admin/AppData/Local/Programs/Python/Python313/python.exe c:/Users/Admin/ifelifelse.py enter appointment date:2023-11-6
this date already full.
enter appointment time:10:00 AM
this time slot already booked.
PS C:\Users\Admin>
```

Figure 13: Result check appointment availability

Strength:

- Patients can book an appointment anytime online using mobile apps without going to the hospital to make a booking.
- Save time for patients and staff in hospital providers by enabling quick booking, rescheduling, and cancellation.
- Offer convenience for patients to book appointments at their preferred time and date without waiting on hold or visiting the clinic or hospital.
- Patients can see the available slots.
- Flexible to updates like changing the appointment times, and canceling bookings.

Kaizen: (room for improvement)

- Add secure login systems for patients, doctors, and staff
- Allow users to search for appointments by patient name, date, or ID
- Add calendars and forms for booking appointments
- Show available dates and time slots dynamically to avoid conflicts